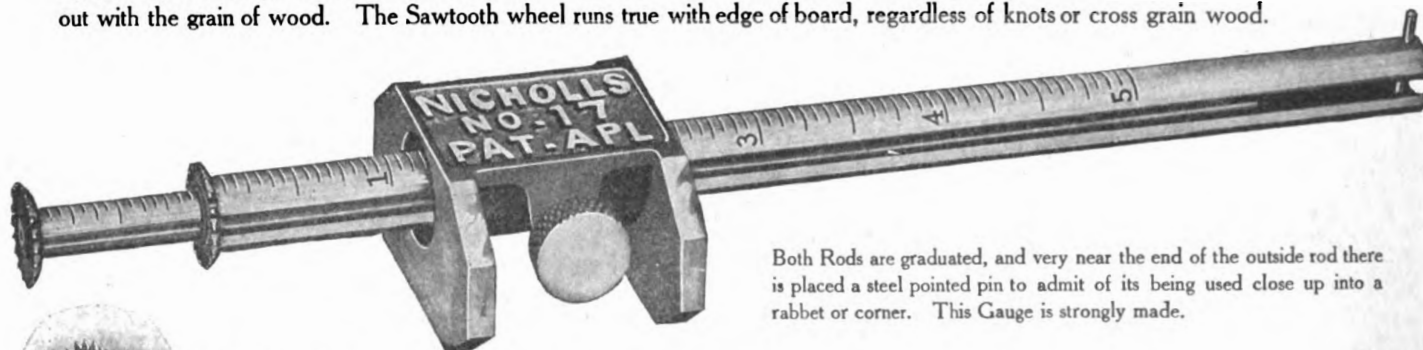


"SAWTOOTH" Roller Marking and Mortise Gauges

By making this Gauge with a Sawtooth wheel at end of bar in place of a pin or straight roll we have a gauge which will not run out with the grain of wood. The Sawtooth wheel runs true with edge of board, regardless of knots or cross grain wood.



Both Rods are graduated, and very near the end of the outside rod there is placed a steel pointed pin to admit of its being used close up into a rabbet or corner. This Gauge is strongly made.



This is the only Gauge on the market that will mark true at all times.

Another feature is, the line made by a pin gauge is very hard to see on some kinds of wood, but with our Sawtooth Roller Gauge the marks made are like punch marks, and reflect the light from all sides.

Our Single Gauge No. 10 is like No. 17 without the inner rod. Furnished in Nickel Plated and White Metal Finish.

LIGHT, NEAT AND COMPACT.

No. 17 Nickel Plated . . . \$1.00

No. 17 White Metal Finish . \$0.75

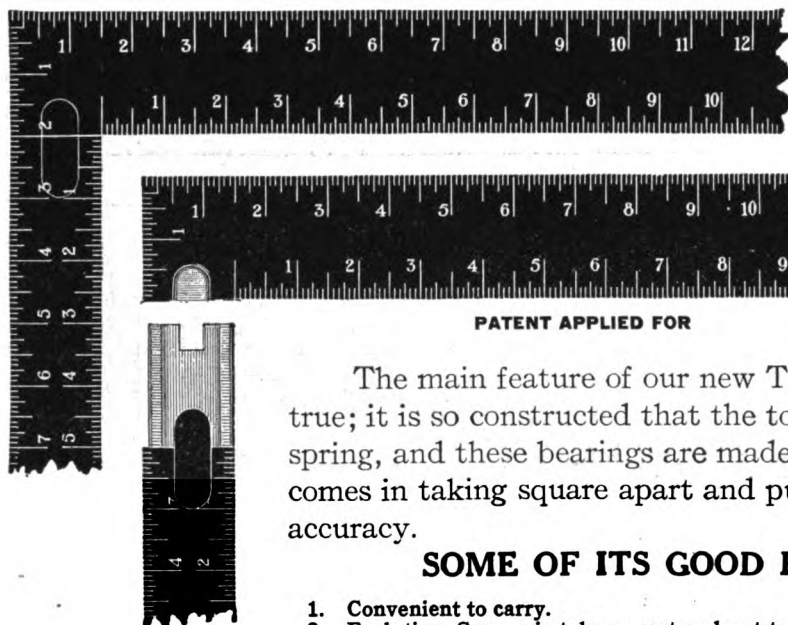
No. 10 Nickel Plated . . . \$0.60

No. 10 White Metal Finish . \$0.50

NICHOLLS MANUFACTURING COMPANY,
OTTUMWA -- -- -- IOWA



PASTE THIS DOME ON LETTERS
THAT YOU WRITE ADVERTISERS.
IT WILL HELP.



PATENT APPLIED FOR

NICHOLLS NEW TAKE-DOWN SQUARE

Guaranteed Accurate and Will Remain So

The main feature of our new Take-Down Square is that it will always stay true; it is so constructed that the tongue is held down into beveled bearings by a spring, and these bearings are made so as to take up the constant wear which comes in taking square apart and putting it together, thereby producing constant accuracy.

SOME OF ITS GOOD POINTS:

1. Convenient to carry.
2. Each time Square is taken apart and put together the wear produces a firmer joint, thereby insuring constant accuracy.
3. No screws used; locks automatically.
4. The only Take-Down Square which leaves no part of the Tongue attached to body, when separated.
5. Occupies smaller space than any other Take-Down Square manufactured. 2"x24".
6. Instantly taken apart and put together.
7. Rust-proof canvas case with each square.

Manufactured in Nos. 3 and 100 Standard; also No. 100 Rafter Framing, giving lengths of common, hip, valley, and jack rafters for 17 different pitches of roof.

ALSO THEIR CUTS

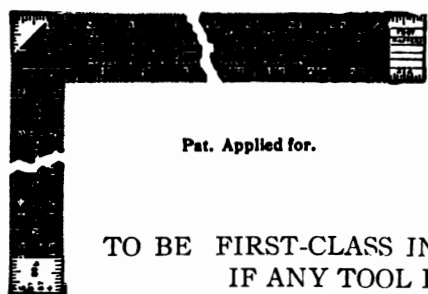
If your dealer will not supply you we will gladly ship you one of these express prepaid upon receipt of price.

	Polished	Ox. Copper	Nickel Plated
No. 3 Standard	\$2.50	\$2.75	\$3.00
No. 100 "	2.75	3.00	3.25
No. 100-R Framing	3.00	3.25	3.50

NICHOLLS MANUFACTURING CO., Ottumwa, Iowa



PASTE THIS DOME ON LETTERS
THAT YOU WRITE ADVERTISERS.
IT WILL HELP.



Pat. Applied for.

Nicholls' Tools ARE GUARANTEED

TO BE FIRST-CLASS IN EVERY RESPECT. MONEY REFUNDED
IF ANY TOOL DOES NOT PROVE SATISFACTORY.

NICHOLLS HARDENED CORNER FRAMING AND STANDARD SQUARES

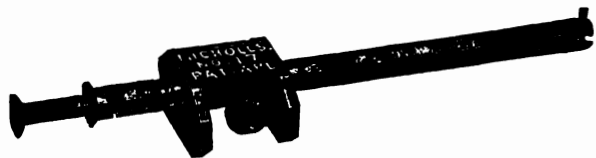
No. 100A contains our regular framing rule on face of body of square, also octagon framing rule on back. Price--

Polished Steel, \$2.25

Oxidized Copper, \$2.50

Nickel Plated, \$3.00

We will prepay express charges on any of our tools if ordered direct.

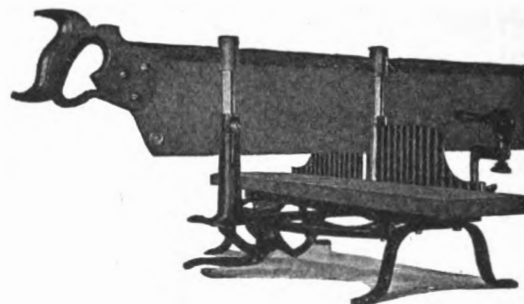


Nicholls New Sawtooth Roller Marking and Mortise Gauge.

By making this Gauge with a Sawtooth Wheel it runs true with edge of board, regardless of knots or cross-grain wood. Also, the line made by this wheel is easily seen as the marks are like punch marks and reflect the light from all sides as shown by illustration in the corner.

LIGHT, NEAT AND COMPACT.

No. 17 Nickel Plated	- - - - -	\$1.00
No. 17 White Metal Finish	- - - - -	.75
No. 10 Nickel Plated	- - - - -	.60
No. 10 White Metal Finish	- - - - -	.50



TRUE MITER BOX.

We have now a positive Center and Octagon stop, which with the miter stops, will take in ninety-five per cent of the work done with miter boxes. Then with the graduated circle, any degree may be obtained very easily.

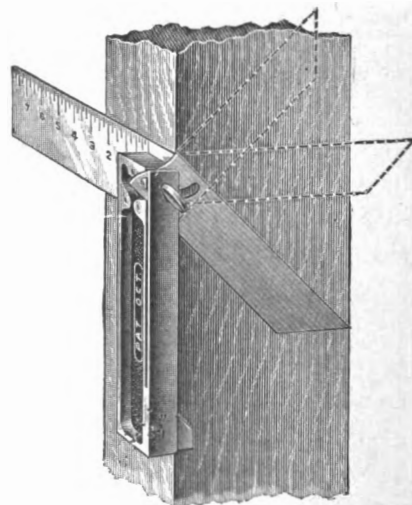
Prices: \$11.50, \$11.75, \$12.00 and \$12.50

IDEAL BEVEL-TRY SQUARE

This tool is a combination of a Bevel and a Try Square. By its use the carpenter can save considerable time. When Bevel is not in use it may be closed in handle out of the way, or by removing thumbscrew the bevel attachment comes off, leaving an ordinary Try-Square.

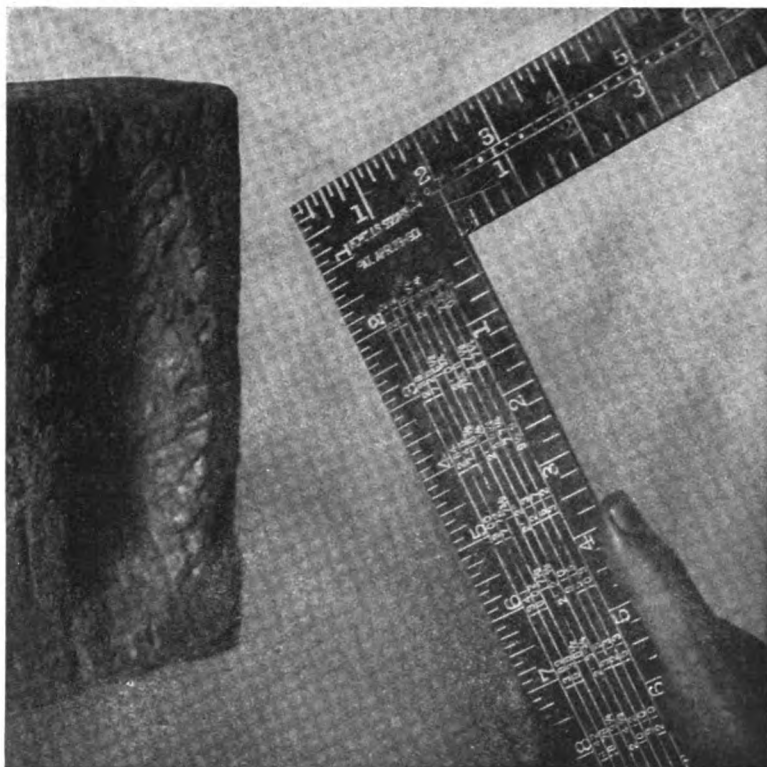
One Size Only,
Eight Inch, Price \$1.20

NICHOLLS MFG. CO.
Ottumwa, Iowa



NICHOLLS GUARANTEED TOOLS.

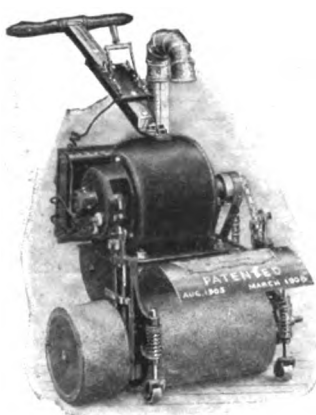
The Nicholls Manufacturing Company, Ottumwa, Iowa, have been offering some very good bargains in their advertisements in THE NATIONAL BUILDER. Their True Mitre Box, with its positive center and octagon stop, which, with the mitre stops, will take in 95 per cent of the work done with mitre boxes, is one of the useful tools they call attention to. The Nicholls New Sawtooth Roller Marking and Mortise Gauge, is a late addition to the Nicholls line. By making this gauge with a sawtooth wheel, it runs true with the edge of board, regardless of knots or cross grain wood. The line made by the wheel is easily seen, as the marks are like punch marks and reflect the light from all sides.



This is the actual picture of a Nicholls Hardened Corner Square, with which we chiseled out this brick, showing what their hardened corners will stand. See how sharp the corner is.

The Nicholls Hardened Corner Framing and Standard Squares are well known to every carpenter and contractor in the United States. These hardened corner framing squares have become very popular. They are made in polished steel, oxidized copper and nickel plated, and are a mighty fine square in every way. All Nicholls tools are guaranteed and can be had from the dealer—or direct from the factory if the dealer will not supply the carpenter or contractor with them.

THE RAPID FLOOR SURFACER.



Floor surfacing is one of the difficult problems when installing floors that necessitate an even and smooth surface. The machine here shown is the Schluter Rapid Floor Surfacer, manufactured by M. L. Schluter, 103 North Canal street, Chicago, Ill., and embodies the correct methods in obtaining these results.

It is constructed for one man operation and sands the floor, removing all roughness and raised portions and gives the floor a fine sandpaper finish. Each machine is equipped with an automatic dust collector, making it possible to surface floor in the finest residences, offices, etc., without inconvenience and annoyance, also this prevents dust from injuring working parts of machine.

The sanding roller is covered with pure rubber, which forms the cushion on which is clamped the surfacing or polishing materials (sandpaper or cloth) to be used. This roller is held in place by side plates with springs, allowing the roller to adjust itself to the floor.

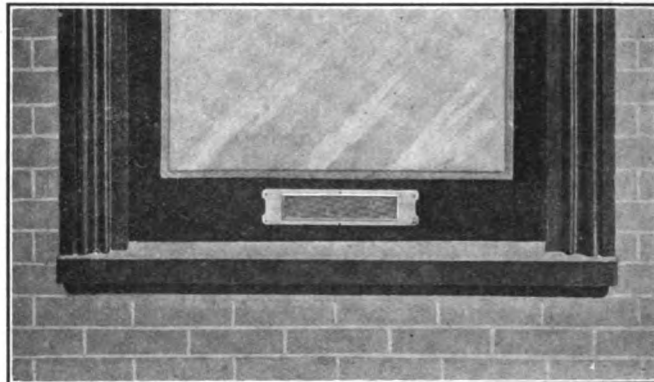
When starting the motor the roller cannot grind into one spot on the floor, as the machine is so constructed that the operator can leave the machine without stopping the motor, as the roller is automatically raised from the floor the moment the handle is released.

Contractors and builders having floor surfacing to do should send for full particulars and free trial proposition. This machine is made in several sizes.

A SASH VENTILATOR OF REAL MERIT.

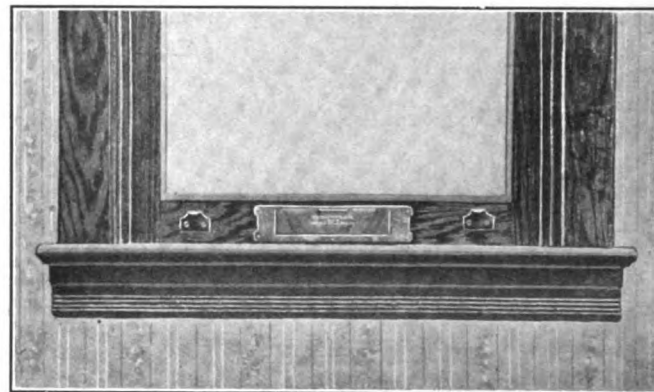
Natural ventilation simply means the withdrawal of foul air and the admission of pure air in a natural, not forced manner. If it comes in

small quantities through cleanable screens, so that no dirt, rain, snow or drafts reach the interior and the device is not cumbersome or costly, every builder and contractor will agree that a big problem in ventilation has been solved. Methods of mechanical ventilation in washing the air are expensive to install and costly to maintain. For three years expert inventors and practical builders in Erie, Pa., have combined their efforts with



a view to lessening the disadvantages and removing the defects of existing room ventilators, so that a scientific, simple and non-expensive device could be perfected.

They have recently succeeded and the Ideal Manufacturing Company are flooded with orders from Maine to California. Greatly enlarged facilities now permit the immediate shipment of ventilators. The Ideal can be quickly fitted by a carpenter into any sash over two inches deep and one and three-eighths inches thick, or, if preferred, it is furnished in a special rail to go under a raised sash. Sleeping rooms, bath rooms, offices, school rooms, churches, public buildings when equipped with the Ideal Sash Ventilator, give that comfort to the occupants only known to those



who insist that pure air is essential to real health and happiness. Fresh air indoors means practically exemption from colds and coughs. The ventilator is adjustable to any air current and can be fitted into either the upper or lower sash. The slant of the device permits moisture to run out. The finish is plain or to match the rest of the hardware trim and of non-rustable material throughout. The retail price of a single ventilator is \$1.50, with liberal discounts to architects, builders, and contractors. The advertisement of the company appears elsewhere and correspondence is invited.

The Ideal Ventilators are commended after investigating their construction, and conversation with those who had used them for a year or more with absolute satisfaction.

GALVANIZED WALL TIES.

Contractors and builders who have suffered annoyance and loss from wall ties that give and become useless, will be interested in Niagara Wall Ties, which are scientifically perfect, having the principle of the keystone, and offering greater resistance than any bond on the market. A hollow wall, when the wall ties are used, is stronger than a solid wall of the same thickness where they are not used. They are easily bent at the middle to conform to uneven surfaces.



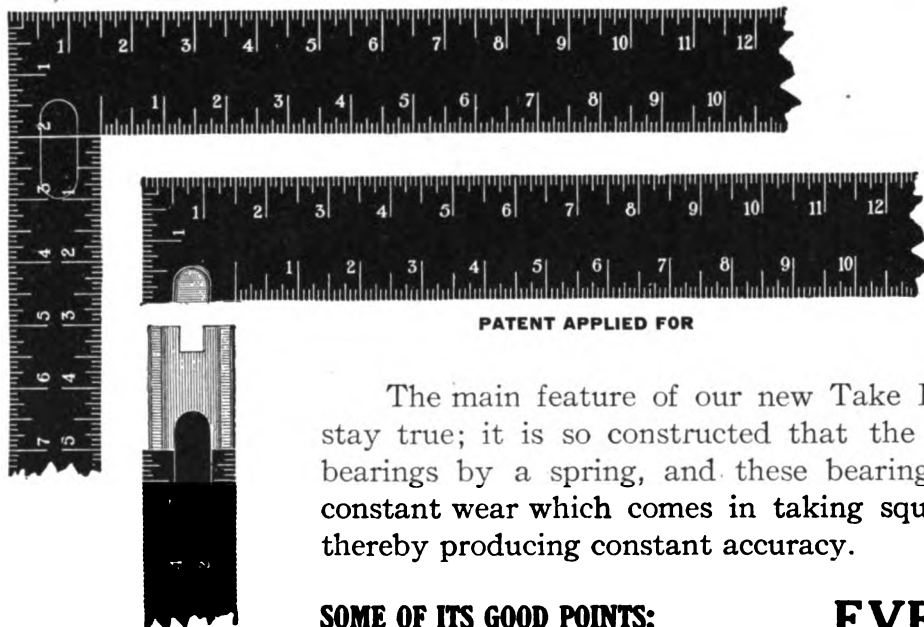
Niagara Wall Tie or Brick Bond.



Niagara Veneer Tie or Brick Bond.

The veneer ties are bent at the end and have a hole punched, ready for nailing, and are fastened to the sheathing easily and rapidly with a common nail. Under any ordinary circumstances, it is impossible to produce the slightest approach to a separation of the parts. Every architect should put wall and veneer ties in his specifications, as every building contractor needs them.

Any contractor or builder will do well to write on his letterhead to the Niagara Falls Metal Stamping Works for Folder 14 NB, which illustrates a line of builders' goods, including sash pulleys, sash chain, etc. Their address is 127 10th st., Niagara Falls, N. Y.



PATENT APPLIED FOR

NICHOLLS NEW TAKE-DOWN SQUARE

Guaranteed Accurate and Will Remain So

The main feature of our new Take Down Square is that it will always stay true; it is so constructed that the tongue is held down into beveled bearings by a spring, and these bearings are made so as to take up the constant wear which comes in taking square apart and putting it together, thereby producing constant accuracy.

SOME OF ITS GOOD POINTS:

1. Convenient to carry.
2. Each time Square is taken apart and put together the wear produces a firmer joint, thereby insuring constant accuracy.
3. No screws used; locks automatically.
4. The only Take-Down Square which leaves no part of the Tongue attached to body, when separated.
5. Occupies smaller space than any other Take-down Square manufactured. 2"x24".
6. Instantly taken apart and put together.
7. Rust-proof canvas case with each square.

Manufactured in Nos. 3 and 100 Standard; also No. 100 Rafter Framing, giving lengths of common, hip, valley, and jack rafters for 17 different pitches of roof.

ALSO THEIR CUTS

If your dealer will not supply you we will gladly ship you one of these express prepaid upon receipt of price.

	Polished	Ox. Copper	Nickel Plated
No. 3 Standard.....	\$2.50	\$2.75	\$3.00
No. 100.....	2.75	3.00	3.25
No. 100-R Framing.....	3.00	3.25	3.50

NICHOLLS MANUFACTURING CO., Ottumwa, Iowa

EVERY CARPENTER

**SHOULD KNOW
HOW TO GET THE
LENGTHS AND CUTS
OF RAFTERS**

**NICHOLLS
MFG. CO.,
Ottumwa, Iowa**

*Our Little Book
Will Tell You*

GENTLEMEN:—
Please send me one of your
little books on how to get the
lengths and cuts of rafters by
your rule.

SEND IN COUPON

NAME.....

TOWN.....

STATE.....

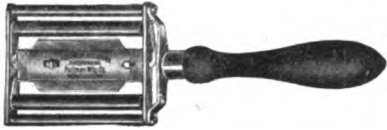
PASTE THIS DONE ON LETTERS
THAT YOU WRITE ADVERTISERS.
IT WILL HELP.

THE PULLMAN RAZOR STROPPER.

Were you ever shaved by a barber? Of course you were—and did you notice how he reached for his strop before he began to shave—once or twice while shaving you, and again before he laid his trusty razor down? Has it a poor edge to need so much stropping? No, it was the best he could buy, but it is necessary to strop the best razor frequently to keep it in shape.

You have a safety razor? Of course, almost every one has. But how about stropping? Do you use one blade three or four times, while the barber strops his a dozen, and then puts in a new blade—then get a dozen sharpened at once or buy new ones?

Why don't you give your safety razor as good treatment as the best common razor? Strop it at least before using, and just after.



You will be surprised at the result. But in order to strop the blade properly you must have a strop different from the old style.

The Pullman Mfg. Co., Rochester, N. Y., are placing on the market a new style of safety blade strop, which permits the rapid sharpening of the blades. It consists of a handle having at the end a number of rollers through which the strop passes. The blade is clamped to a central bar, which is so adjusted as to hold the blade against the strop at the correct angle. The action of the strop automatically reverses the blade so there is no possibility of cutting the strop. The device is small, neat and compact and should last a lifetime. Every owner of a safety razor should have one.

CONCRETE ORNAMENTAL MOULDS.

Never before in the history of concrete work has the use of concrete been so great for ornamental purposes as at the present time. There seems to be no limit to the possibilities in this line and concrete lends itself so readily to the manufacture of concrete articles that it proves most attractive and a very interesting line of work.

There is a satisfaction about turning out a handsome piece of work that appeals to every concrete worker, and the immense profits in this line are also very satisfactory.

You can make a vase similar to the following illustration with about one sack of cement. This vase would sell for not less than \$5.00 and every housewife wants a pair of these as soon as she sees them. This illustration shows one of the most attractive and beautiful lawn vases on the market at the present time. It is sold by the Northwestern Steel & Iron Works of Eau Claire, Wis., who are extensive manufacturers of concrete machinery of every description and their catalogue shows the largest line of ornamental moulds made.



It will pay contractors to have a copy of this book if for nothing else than for reference. It describes everything shown in the concrete machinery line and gives valuable information of every description.

All moulds for ornamental purposes are made in four sections and are hinged so as to draw easily from the finished mould. The designs are clear cut and attractive in appearance and every contractor will do well to consider the establishment of an ornamental department in connection with their regular business.

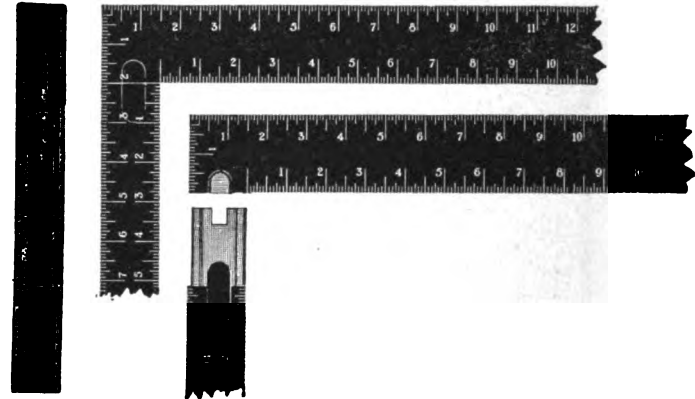
Every article produced will prove an advertisement for their work and every live, up-to-date concrete man realizes that they cannot do business without advertising. There are a hundred and one different ways in which articles of this kind tend to bring added

sales to their business, and will increase their profits to a large extent, and put their business on a more satisfactory and profitable basis.

THE NICHOLLS TAKE DOWN SQUARE.

The Nicholls Manufacturing Co., of Ottawa, Iowa, have recently placed on the market a new form of Take Down square, which possesses marked advantages over other forms now in use. In this square, the tongue separates entirely from the blade, so that there is no projection on the blade beyond the inside edge. This allows the square to be packed in a much smaller space, in fact, being only 2 inches by 24 inches. In putting together there are no screws or cams to adjust or come loose, but the tongue automatically locks securely into the blade without the use of any tools whatever.

One of the features claimed for this square is that it will always remain true, as the construction is such that the wear, occasioned by frequent taking apart, causes the two pieces to be more firmly held

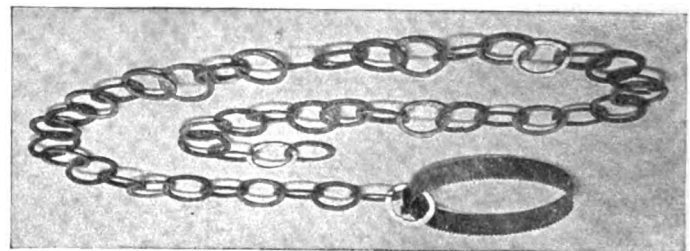


together. As the manufacturers make several styles and markings, this square can be obtained in the Nos. 3 and 100 Standard and No. 100 Rafter Framing in Oxidized Copper Black (white or yellow figures) Galvanized, Old Copper and Nickel Plated.

It will be noted that the No. 100 Rafter Framing Square has engraved on it the famous Nicholls Rafter Framing Rule, giving the cuts and lengths for common, hip, valley and jack rafters for seventeen different pitches. For those not familiar with this marking the Nicholls Manufacturing Company, Ottumwa, Iowa, offer to send a direction sheet describing their framing rule, as well as any other information regarding their famous squares.

FLEXIBLE HACK SAW BLADE.

This is not an illustration of a Dog Collar and Chain, but rather it shows the work of a Culley Flexible Hack Saw Blade, manufactured by the Simonds Manufacturing Company, Fitchburg, Mass., and Chicago, Ill. There were 47 separate rings made from a 1-ft. pipe, each ring slit and the chain formed. After making this num-



ber of cuts, the condition of the blade was so good that the teeth are clearly defined, even in this greatly reduced illustration. The remarkable flexible property of this blade is shown by its being bent in a complete circle.

HAVE YOU INVESTIGATED AMATITE?

Nobody who is buying ready roofing from time to time has any business to be ignorant of the fact that there is a very large and rapidly increasing amount of no-paint roofings coming into use. The painting feature was the only objection to the old-style smooth-coated roofing. Painting cost money and was very apt to be neglected in the interests of other matters that were more pressing—then, before the owner woke up, the roofings had begun to lose their waterproof characteristics, were absorbing water and being injured by frost. Accordingly, the advent of Amatite, with its practical mineral surface, was hailed with much satisfaction by ready roofing users, and the sales of the new invention have been increasing with tremendous rapidity. The simple fact that Amatite Roofing costs no more than the painted kind, will last as long and longer, and involves no maintenance expense whatever, made it a favorite with building owners all over the country.

Simply as a matter of relative economy and satisfaction, look up Amatite. You can do so very easily by simply addressing a request for a sample to the nearest office of the Barrett Manufacturing Company, New York, Chicago, Philadelphia, Boston, St. Louis, Cleveland, Pittsburg, Cincinnati, Kansas City, Minneapolis, New Orleans, Seattle.